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Principles of Communication Engineering - John M. Wozencraft 1990
This book provides a cohesive introduction to much of the vast body of knowledge central to the problems of communication engineering.
Communication Systems - Marcelo S. Alencar 2005-11-22
Presents main concepts of mobile communication systems, both analog and digital Introduces concepts of probability, random variables and stochastic processes and their applications to the analysis of linear systems Includes five appendices covering Fourier series and transforms, GSM cellular systems and more
Communication Systems Engineering - John G. Proakis 2002
Thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, Communication Systems Engineering, Second Edition introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.
Principles of Communications - Rodger E. Ziemer 1976

Principles of Electronic Communication

Systems - Louis E. Frenzel 2004
"Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout..

Principles Of Communication Systems - Herbert Taub 2008-09-07
This hallmark text on Communication Systems has been revised to bring in the latest on the subject. It covers the undergraduate syllabi of Analog and Digital Communication and also gives the background required for advanced study on the subject. Plethora of solved examples and practice questions elucidate the text and give clarity in the discussions.

Simulation of Communication Systems - Michel C. Jeruchim 2006-04-11
Since the first edition of this book was published seven years ago, the field of modeling and simulation of communication systems has grown and matured in many ways, and the use of simulation as a day-to-day tool is now even more common practice. With the current interest in digital mobile communications, a primary area of application of modeling and simulation is now in wireless systems of a different flavor from the `traditional' ones. This second edition represents a substantial revision of the first, partly to accommodate the new applications that have arisen. New chapters include material on modeling and simulation of nonlinear systems, with a complementary section on related measurement techniques, channel modeling and three new case studies; a consolidated set of problems is provided at the end of the book.

Principles of Communication Systems Simulation with Wireless Applications - William H. Tranter 2004
This volume presents an overview of computer-based simulation models and methodologies for communication systems. Topics covered include probability, random, process, and estimation theory and roles in the design of computer-based simulations.

DIGITAL AND ANALOG COMMUNICATION SYSTEMS - Shanmugam 2006-08
About The Book: The book provides a detailed, unified treatment of theoretical and practical aspects of digital and analog communication systems, with emphasis on digital communication systems. It integrates theory-keeping theoretical details to a minimum-with over 60 practical, worked examples illustrating real-life methods. The text emphasizes deriving design equations that relate performance of functional blocks to design parameters. It illustrates how to trade off between power, band-width and equipment complexity while maintaining an acceptable quality of performance. Material is modularized so that appropriate portions can be selected to teach several different courses. The book also includes over 300 problems and an annotated bibliography in each chapter.

Satellite Communication Systems 2ed - M. Richharia 1999

Electronic Communication Systems - George Kennedy 1984

Technology Systems and Management - Ketan Shah 2011-04-04
This book constitutes the refereed proceedings of the First International Conference on Technology Systems and Management, ICTSM 2011, held in Mumbai, India, in February 2011. The 47 revised full papers presented were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on computer engineering and information technology; electronics and

telecommunication; as well as technology management.

Communication systems - Athol Bruce Carlson 1981

High-Temperature-Superconductor Thin Films at Microwave Frequencies - Matthias Hein 1999-07-02

The book develops a comprehensive understanding of the surface impedance of the oxide high-temperature superconductors in comparison with the conventional superconductor Nb3Sn. Linear and nonlinear microwave responses are treated separately, both in terms of models, theories or numerical approaches and in terms of experimental results. The theoretical treatment connects fundamental aspects of superconductivity to the specific high-frequency properties. The experimental data review the state of the art, as reported by many international groups. The book describes further the main features of appropriate preparation, handling, mounting, and refrigeration techniques, and finally discusses possible applications in passive and active microwave devices.

Principles Of Communication Systems - Herbert Taub 2007

Data Communications Principles - Richard D. Gitlin 2012-12-06

This unique text, for both the first year graduate student and the newcomer to the field, provides in-depth coverage of the basic principles of data communications and covers material which is not treated in other texts, including phase and timing recovery and echo cancellation. Throughout the book, exercises and applications illustrate the material while up-to-date references round out the work.

Principles of Communication Engineering - A.K.Chhabra 2006

The first four chapters of the text describe different types of signals,modulation and demodulation of these signals,various transmission channels and noise encountered by the signals during propagation from sender to receiver end.Apart from this,this part of the book also deals with different forms of line communication systems.A brif introduction of information theory is also given at the end of the text so that the students become familiar with this aspect of communication systems.

Principles of Digital Communication - Robert G. Gallager 2008-02-28

The renowned communications theorist Robert Gallager brings his lucid writing style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

Answer Book to Accompany Principles of Communication Systems - Herbert Taub 1971

Principles of Communication Systems - Herbert Taub 1985

Principles of Communication Systems - Herbert Taub 1986

Analog and Digital Communications - Kundu Sudakshina 2010

Solutions Manual to Accompany Principles of Communication Systems - Herbert Taub

1971

Solutions manual to accompany Taub/Schilling: Principles of communication systems - David Manela 1986

Introduction to Communication Systems - Ferrel G. Stremler 1977
Features Explanations of practical communication systems presented in the context of theory. Over 300 excellent illustrations help students visualize difficult concepts and demonstrate practical applications. Over 120 worked-out examples promote mastery of new concepts, plus over 130 drill problems with answers extend these principles. A wide variety of problems, all new to this edition -- including realistic applications, computer-based problems, and design problems. Coverage of current topics of interest, such as fiber optics, spread spectrum systems and Integrated Digital Services Networks.
Communication Systems - Simon S. Haykin 1983

Principles of Communication Systems - Herbert Taub 1985

Principles of Communication Systems [by] Herbert Taub [and] Donald L. Schilling - Herbert Taub 1971

Principles of Synchronous Digital Hierarchy - Rajesh Kumar Jain 2018-10-03
The book presents the current standards of digital multiplexing, called synchronous digital hierarchy, including analog multiplexing technologies. It is aimed at telecommunication professionals who want to develop an understanding of digital multiplexing and synchronous digital hierarchy, in particular, and the functioning of practical telecommunication systems, in general. The text includes all relevant fundamentals and provides a handy reference for problem solving or defining operations and maintenance strategies. The author covers digital conversion and TDM principles, line coding and digital modulation, signal impairments, and synchronization, as well as emerging systems.
Compr. Statistical Theory of Communication - I. Ravi Kumar 2001

Modern Digital and Analog Communication Systems - B. P. Lathi 1995
With exceptionally clear writing, Lathi takes students step by step through a history of communications systems from elementary signal analysis to advanced concepts in communications theory. The first four chapters of the text present basic principles, subsequent chapters offer ample material for flexibility in course content and level. All Topics are covered in detail, including a thorough treatment of frequency modulation and phase modulation. Numerous worked examples in each chapter and over 300 end-of-chapter problems and numerous illustrations and figures support the content.
Principles Of Communication Systems - HERBERT. TAUB 2007

Digital and Analog Communication Systems - Leon W. Couch 1987
For second and third year introductory communication systems courses for undergraduates, or an introductory graduate course. This revision of Couch's authoritative text provides the latest treatment of digital communication systems. The author balances coverage of both digital and analog communication systems, with an emphasis on design. Students will gain a working knowledge of both classical mathematical and personal computer methods to analyze, design, and simulate modern communication systems. MATLAB is integrated throughout.
Introduction to Digital Communications - Ali Grami 2015-02-25
Introduction to Digital Communications explores the basic principles in the analysis and design of digital communication systems, including design objectives, constraints and trade-offs. After portraying the big picture and laying the background material, this book lucidly progresses to a

comprehensive and detailed discussion of all critical elements and key functions in digital communications. The first undergraduate-level textbook exclusively on digital communications, with a complete coverage of source and channel coding, modulation, and synchronization. Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Focuses on practical applications and illustrative examples. A companion Web site includes solutions to end-of-chapter problems and computer exercises, lecture slides, and figures and tables from the text

Principles of Digital Communication and Coding - Andrew J. Viterbi 2013-04-22

Written by two distinguished experts in the field of digital communications, this classic text remains a vital resource three decades after its initial publication. Its treatment is geared toward advanced students of communications theory and to designers of channels, links, terminals, modems, or networks used to transmit and receive digital messages. The three-part approach begins with the fundamentals of digital communication and block coding, including an analysis of block code ensemble performance. The second part introduces convolutional coding, exploring ensemble performance and sequential decoding. The final section addresses source coding and rate distortion theory, examining fundamental concepts for memoryless sources as well as precepts related to memory, Gaussian sources, and universal coding. Appendixes of useful information appear throughout the text, and each chapter concludes with a set of problems, the solutions to which are available online.

Digital Communication - Apurba Das 2010-08-02

"Digital Communications" presents the theory and application of the philosophy of Digital Communication systems in a unique but lucid form. The book inserts equal importance to the theory and application aspect of the subject whereby the authors selected a wide class of problems. The Salient features of the book are: 1. The foundation of Fourier series, Transform and wavelets are introduces in a unique way but in lucid language. 2. The application area is rich and resemblance to the present trend of research, as we are attached with those areas professionally. 3. Elegant exercise section is designed in such a way that, the readers can get the flavor of the subject and get attracted towards the future scopes of the subject. 4. Unparallel tabular, flow chart based and pictorial methodology description will be there for sustained impression of the proposed design/algorithms in mind.

Communication Systems - Sanjay Sharma 2012

Principles of Electronic Communication Systems - Louis E. Frenzel 2008

"Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout..

Third Generation Mobile Telecommunication Systems - Peter Stavroulakis 2012-12-06

One hundred years ago, the notion of transmitting information without the use of wires must have seemed like magic. In 1896, the first patent for wireless communication was granted to Marchese Guglielmo Marconi. Since then the field of wireless communications which includes cellular systems has taken various forms of development. It basically evolved through three Eras. The Pioneer Era over the period

of 1860-1921, the Precellular Era over 1921-1980 and the Cellular Era after 1980 and beyond. The first generation cellular era started with the Analog Systems and evolved in the digital domain utilizing Time Division Multiple Access (TDMA) and Code Division Multiple Access (CDMA), thus comprising the Second Generation Mobile Systems. The first generation RF cellular communications systems deployed in the early to mid 1980's had air interfaces comprised of analog technology. Among them were AMPS (Advanced Mobile Phone System), NMT (Nordic Mobile Telephone), and TACS (Total Access Communications System). These were designed for use in a specific geographic area and not intended to be deployed in other areas. There was not much commonality beyond using the same air interface technology and same modulation. The air interface technology was Frequency Division Multiple Access (FDMA) and the modulation was analog FM, but with different deviations and channel spacings. The frequency bands, air interface protocols, number of channels, and data rates were different. In general, these systems provided local and national coverage.

Principles of Communication Systems - Herbert Taub 2013